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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,002	11/20/2003	Nova Spivack	RN-P002	9098
26191	7590	05/01/2007	EXAMINER	
FISH & RICHARDSON P.C. PO BOX 1022 MINNEAPOLIS, MN 55440-1022			ROSE, HELENE ROBERTA	
ART UNIT		PAPER NUMBER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/719,002	SPIVACK ET AL.
	<b>Examiner</b>	<b>Art Unit</b>
	Helene Rose	2163

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 27 February 2007.  
 2a) This action is FINAL.      2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1 and 3-13 is/are pending in the application.  
 4a) Of the above claim(s) 2 is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1 and 3-13 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 20 November 2003 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date: _____   | 6) <input type="checkbox"/> Other: _____                          |

Detailed Action

1. In response to communications filed on 2/27/2007, Claims 1 and 3 have been amended.

Claim 2, was cancelled; No claims were added. Therefore, Claims 1 and 3-13 is pending.

2. Applicant's arguments with respect to claims 1 and 3-13 have been fully considered (MPEP 714.04; 37CFR 1.11) but they are not persuasive.

Claim Rejections – 35 U.S.C- 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1 and 3-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wachtel (US Patent No. 6,847,9740, Date Filed: July 25, 2001) in view of Baer et al (US Patent No. 6,839,701, Date Filed: January 21, 2000, hereinafter Baer).

Claim 1:

Regarding claim 1, Wachtel teaches a semantic object representing an entity or tacit information, the semantic object comprising:

semantic tags describing attributes of the entity or tacit information (column 11, lines 54-57, wherein a semantic descriptor such as a “ person” semantic descriptor – interpreted to be the semantic tag. exposes methods to retrieve child elements – interpreted to be the attributes of the entity, that the person semantic descriptor includes, wherein these child elements could be other semantic descriptors such as “ address” semantic descriptor or data descriptors such

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as " first name" data descriptor and " last name" data descriptors, Wachtel), including relationships to other semantic objects, to physical or software objects (Figure 5, all features, wherein it illustrates an ontological relationship between semantic constructs and their associated logical search objects, i.e. LSO' s, wherein legal entity class with two children classes, person, and cooperation, wherein each these classes include a child class and so forth, Wachtel), or to information existing in the mind of a human being (column 19, lines 55-63, wherein a suitable connection to an external data provider in the form of a human actor, and wherein screens in the high-level protocol sub-layer to connect to a human actor through manual entry input device such as a screen and keyboard, Wachtel); and rules embodying goals (column 6, line 62, wherein input rules, Wachtel), automation and other policies regarding at least one of:

(i) how the semantic object interacts with (Figure 9, all features, wherein it illustrates interaction and wherein its further defined in column 13, lines 47-51, Wachtel), (ii) is manipulated by (column 5, line 26, wherein manipulate a repository of logical search objects, Wachtel), and (iii) is displayed to human beings (see abstract, wherein graphical user interfaces provide facilities for creating search objects and aggregating logical search objects into workflow and services, wherein GUI is an display interface, Wachtel); and automatic processes (column 9, line 21, wherein automate business processes, Wachtel);

wherein a semantic object can be searched using semantic tags and meta-data contained in the semantic object (Figures 7a and 7b, wherein metadata is stored and column 11, lines 27-35, wherein metadata store provides persistence for configuration data used by logical search objects at execution time and wherein a search configuration includes, and so forth and wherein finally the search configuration includes reference to a logical search objects to use when performing a search at execution time, Wachtel).

Wachtel discloses the limitation above. However, Wachtel does not disclose wherein “ the meta-data being paired with the semantic tags and line and wherein the semantic tags can be extended by an owner of the semantic object and shared over a network” .

On the other hand, Baer discloses wherein “ the meta-data being paired with the semantic tags and line and wherein the semantic tags can be extended by an owner of the semantic object and shared over a network” (Figures 22A and 22B, all features and columns 5–6, lines 65–67 and lines 1–2, wherein owner must specify which other patrons are to have access to the object, Baer).

It would have been obvious to one of the ordinary skill in the art at the time of the invention to incorporate Baer teachings into Wachtel system. A skilled artisan would have been motivated to combine as suggested by Baer at [column 1, lines 45–52], in order to present tailored information to a user. As a result, establishing an improved method to facilitate and manage relationships among content to improve the efficiency of on-line applications.

Claim 3:

Regarding Claim 3, Wachtel teaches the method comprising:  
creating a semantic card that is configured to represent resource information or tacit information, the semantic card comprising tags for identifying semantic information (column 21, lines 20–24, wherein inside product element there may be multiple tags indicating parameters, Watchel), and rules regarding at least one of: (i) how the semantic card interacts with (column 9, lines 53–57, wherein this reads over atomic objects have a semantic context associated with a particular type, data fields can be translated into an atomic objects, for example, the value might be a string .....” , which is interpreted to be equivalent to semantic card interacts with” ; column 21, lines 12–24, wherein this reads over “ a service request may include one or many service request for service, with one by the product element for each request, wherein the

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product element includes a number of attributes indicating which services have been requested; and column 24, lines 1–3, wherein the date and time that a workflow task was instantiated to satisfy a subject service request, wherein this is overall equivalent to “ how the semantic interacts with” , Wachtel) (ii) is manipulated by (column 15, lines 30–36, wherein this reads over “ definition of a workflow can be done by directly manipulating a service metadata store or through a product configuration tool” , Wachtel), and (iii) is displayed to human beings and automated processes (column 6, line 62, wherein input rules; column 8, lines 44–51, wherein intelligent data assimilation system enforces business rules to particular business process, wherein these business rules are abstracted into a generalized mechanism in which an intelligent data assimilation system conditionally evaluates and determines an appropriate action; and column 6, lines 1–8, wherein data allow users to manipulate encapsulated data, and wherein it allows intelligent traversal and identification of any available information, Wachtel);

seeking to detect an information resource containing information that can be represented by the semantic card (column 10, lines 42–54, wherein if a request is made to find, wherein find is equivalent to detect; the legal address of a person when the system receives the appropriate request, wherein the LSO to fetch the requested data, wherein each of these objects contacts a data provider and request and receives the appropriate data from the provider, Wachtel); and

Wachtel disclose the above limitation. However, Wachtel does not disclose, “ if the information resource is found, linking the semantic card to the information resource such that the semantic card represents the information resource, wherein the semantic card is also configured to have a link to or form any number of other semantic cards” . On the other hand, Baer does disclose “ if the information resource is found, linking the semantic card to the information resource such that the semantic card represents the information resource, wherein the semantic

card is also configured to have a link to or form any number of other semantic cards (Figures 9A and 9B, all features, wherein the interfaces are link thru diagram 113, Baer).

It would have been obvious to one of the ordinary skill in the art at the time of the invention to incorporate Baer teachings into Wachtel system. A skilled artisan would have been motivated to combine as suggested by Baer at [column 1, lines 45-52], in order to present tailored information to a user. As a result, establishing an improved method to facilitate and manage relationships among content to improve the efficiency of on-line applications.

Claim 4:

Regarding Claim 4, the combination of Wachtel in view of Baer teaches wherein the information resource is found, the method further comprising providing the semantic card with meta data about the information resource (column 11, lines 45-48, wherein semantic descriptor stored in the metadata store and lines 54-58, wherein semantic descriptor such as persons, first name and so forth is interpreted to be the metadata stored within the semantic descriptor, Wachtel).

Claim 5:

Regarding Claim 3, the combination of Wachtel in view of Baer teaches wherein the information resource is not found, and wherein the semantic card represents the tacit information (column 5, lines 39-45, wherein a data provider can be a human factor receiving a request from the intelligent data assimilation system to find and return a data that is not electronically accessible, Wachtel; column 18, lines 8-10, wherein the connection adapter hides transport specific headers found within a data stream; and column 11, lines 63-67, wherein data descriptor is implanted by a generic data descriptor, and wherein class provides the set of methods that are not exposed in the data descriptor interface, and during initialization components creating descriptors use a concrete class to create set values, Wachtel).

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Claim 6:

Regarding Claim 6, the combination of Wachtel in view of Baer teaches wherein the semantic card is created before seeking to detect the information resource (column 89, lines 4-5, wherein new sequence id is stored in the PSF file and the content is stored into files residing in the same directory, Baer).

Claim 7:

Regarding Claim 7, the combination of Wachtel in view of Baer teaches wherein the information resource is detected before creating the semantic card (column 1, lines 32-35, wherein a university professor would find value in creating custom textbooks tailored to a specific course from a pre-published textbooks stored in the content management system; column 85, lines 41-43, wherein when a user registers with the compilation system for the first time, he is assigned a guest status that authorized him to create and submit CBO's, i.e. create a file object, and column 89, lines 7-13, wherein the product generator receives the input CBO files and reformats them into a desired publishing format and so forth, Baer).

Claim 8:

Regarding Claim 8, the combination of Wachtel in view of Baer teaches wherein the information resource is detected upon the information resource being published (column 86, lines 29-32, wherein finding entities that are pre-fixed by the same sequence if and if entity is found, set it status to the published or unpublished and column 89, lines 13-16, wherein the resultant CBO frame maker files are now forwarded to publishing system, Baer).

Claim 9:

Regarding Claim 9, the combination of Wachtel in view of Baer teaches wherein an entity that publishes the information resource triggers the creation of the semantic card (column 2, lines 17-28, wherein the user may create content, e.g. a new chapter or section for inclusion in

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the final compilation by inputting user-provided material through the web interface, wherein the stores and creates reusable, selectable object associated with the new content, Baer).

Claim 10:

Regarding Claim 10, the combination of Wachtel in view of Baer teaches wherein the publisher further triggers publication of the semantic card (column 4, lines 8-15, wherein a path for inputting content to the data repository, a path for enabling a user to select content and organization from the data repository through a web base interface, and a path that interfaces with a publishing system for creating the compilation of content from the user specification and lines 36-38, wherein content and other information is input to digital library through the input path, Baer).

Claim 11:

Regarding Claim 11, the combination of Wachtel in view of Baer teaches wherein the semantic card is published upon being included in a directory of other semantic cards (column 4, lines 13-23, wherein a path that interfaces with a publishing system for creating the compilation of content from the user's specification, wherein each path will be described in detail below for creating custom textbooks, and the user group comprises university professors, wherein for example, the content stored in the system comprises a plurality of published textbooks, broken down into hierarchically related objects: book, volume, chapter and chapter subsection; and column 9, lines 3-9, wherein the Product Entity Group defines the constructs for storing pre-published works or "products" in the digital library 20, and wherein these products provide the content from which a user can build a compilation of content and the Program Entity Group defines categories for content, Baer).

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Claim 12:

Regarding Claim 12, the combination of Wachtel in view of Baer teaches providing search functionality in the directory (column 5, lines 48–50, wherein library server 44 additionally performs searches and routes requests to the appropriate object server 48 to store, retrieve, and update objects which is equivalent to search functionality; column 6, lines 3–10, wherein if a client request involves the storage, retrieval, or update of an object, library server 44 forwards the request to the object server 48 that contains or will store the object(s) referred to in the request based upon information provided by library catalog 46 and if the client request is a query of the information stored in library catalog 46, library server 44 will interact only with the library catalog 46 and will not contact object server 20; and column 6, lines 25–27, wherein an item is a row in an index class and a part is a file within the object server 48 that is stored in an access managed directory structure, Baer).

Claim 13:

Regarding Claim 13, the combination of Wachtel in view of Baer teaches linking the semantic card to at least one of the other semantic cards in the library (Figure 11, all features, wherein It includes a list of pre-published books whose titles are hypertext links to their corresponding PSF files and by clicking on one of these titles 138, the user invokes the EProductGetOutline procure call which retrieves the PSF file, parses it, and wherein it is displayed within Figure 12, Baer).

Examiner Response to Applicant' s Arguments

Applicant Argues:

Applicant argues that prior art, Watchel and Baer, alone or in combination, do not teach or suggest a semantic object that includes rules" AND " Watchel and Baer, alone or in combination do not teach or suggest a method that involves creating a semantic object including rules" .

Examiner Response:

In response to Applicant argument, that neither Watchel nor Baer, alone or in combination, anticipates or renders obvious a semantic object that includes rules and a method in which offers creating a semantic object including rules, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is suggestion, or motivation some teaching, to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Watchel fails to disclose "the meta-data being paired with the semantic tags and line and wherein the semantic tags can be extended by an owner of the semantic object and shared over a network", and Watchel fails to disclose "if the information resource is found, linking the semantic card to the information resource such that the semantic card represent the information resource, wherein the semantic card is also configured to link to or form any number of other semantic cards". However, Baer does disclose "the meta-data being paired with the semantic tags and line and wherein the semantic tags can be extended by an owner of the semantic object and shared over a network" AND "if the information resource is found, linking the semantic card to the information resource

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such that the semantic card represent the information resource, wherein the semantic card is also configured to link to or form any number of other semantic cards". It would have been obvious to one of the ordinary skill in the art at the time of the invention to incorporate Baer teachings into Wachtel system. A skilled artisan would have been motivated to combine as suggested by Baer at [column 1, lines 45-52], in order to present tailored information to a user. As a result, establishing an improved method to facilitate and manage relationships among content to improve the efficiency of on-line applications.

Examiner Remarks: In regards to the IDS that was filed on Oct 31, 2006, before the mailing date of the present office action, as indicated within applicant remarks. Examiner asks for the applicant to resubmit the IDS, wherein the IDS filed on 10/31/2006, is not visible to the Examiner. Therefore, in order for the IDS to be considered, applicant must fax or mail in another form.

#### Prior Art of Record

1. Kroenke et al. (US Patent No. 5,809,297) – discloses a computer-based system for allowing a user to create a relational database schema.
2. Kawai (US Patent No. 5,717,924) discloses an object model comprises one or more semantic objects that represent items about which data is stored in a relational database in a computer system.
3. Wachtel (US Patent No. 6,847,974) discloses an intelligent data assimilation system including an ontology description, workflows, and logical search objects.
4. Diament (US Patent No. 5,905,498) discloses computer software and user interface for information management provided in which semantic networks may be entered and analyzed.

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5. Baer (US Patent No. 6,839,701) discloses a web-based system, method, and program product are provided for searching content object stored in a data repository as a group of hierarchically related content entities.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

#### Point of Contact

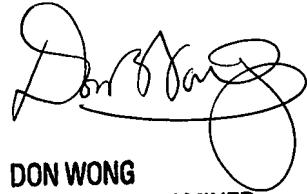
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helene Rose whose telephone number is (571) 272-0749. The examiner can normally be reached on 8:00am - 4:30pm Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HRR  
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